

OM nucleic - nucleic search, using sw model

Run on: August 19, 2003, 19:58:54 ; Search time 1988 Seconds
 (*without alignments)
 244.512 Million cell updates/sec

Title: US-09-758-881-115

Perfect score: 20

Sequence: 1 gctccagcatctgctgcttc 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext. 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 33330

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : EST:*

1: em_estba: *
 2: em_esthum: *
 3: em_lestin: **
 4: em_estmu: **
 5: em_estov: **
 6: em_estpl: **
 7: em_lestro: **
 8: em_htc: *
 9: qb_est1: *
 10: qb_est2: *
 11: qb_htc: *
 12: qb_est3: *
 13: qb_est4: *
 14: qb_est5: *
 15: em_estom: *
 16: em_estun: *
 17: em_gss_hum: *
 18: em_gss_inv: *
 19: em_gss_pln: *
 20: em_gss_vrt: *
 21: em_gss_fun: *
 22: em_gss_mam: *
 23: em_gss_mus: *
 24: em_gss_pro: *
 25: em_gss_rod: *
 26: em_gss_phg: *
 27: em_gss_vrl: *
 28: qb_gss1: *
 29: qb_gss2: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	IDB ID	Description
c 1	13.4	67.0	29 28	AZ780164
c 2	12.2	61.0	25 9	A1748295
c 3	12	60.0	24 28	AZ779573
c 4	12	60.0	27 28	AZ404206
				AZ780164 2M0017E17
				A1748295 sb50f02.y
				AZ779573 2M0016K09
				AZ404206 1M0172120

ALIGNMENTS

RESULT 1

AZ780164/c

LOCUS AZ780164 29 bp DNA linear GSS 16-FEB-2001

DEFINITION 2M0017E17F Mouse 10kb plasmid UGCC1M library Mus musculus genomic

ACCESSION clone UUGC2M0017E17 F, genomic survey sequence.

VERSION AZ780164.1 GI:12911551

KEYWORDS GSS,

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,R., Hamil,C., Islan,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Keilly ,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A., Wright,D., Weiss,R.

AUTHORS

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished

COMMENT Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

FEATURES
source
 Email: ddunn@genetics.utah.edu
 Insert length: 10000 Std Error: 0.00
 Plate: 0017 row: E column: 17
 Seq primer: CGTTTAAAGGACGGCCAGT
 Class: Plasmid ends
 High quality sequence stop: 29.
location/Qualifiers
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/note "Vector: PWD42nv; Purified genomic DNA"
/mol_type "genomic DNA"
/strain "C57BL/6J"
/db_xref "taxon:10090"
/clone "UUGC2M0017E17"
/sex "Male"
/lab_host "E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib "Mouse 10kb Plasmid UGGC1M library"
/note "Vector: PWD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (<http://www.jax.org/resources/documents/dnars/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptored DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (gi:4732114.gbl|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptored mouse DNA was annealed to
 adaptored vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance." (Stratagene) cells
BASE COUNT
 ORIGIN
 9 a 4 c 10 g 6 t
FEATURES
source
 Email: est@watson.wustl.edu
 Insert length: 2068 Std Error: 0.00
 High quality sequence stop: 1.
location/Qualifiers
 1. .25
/note "Vector: pBluescript II SK+; Site_1: EcoRI; Site_2:
 XbaI; This cDNA library was constructed from mRNA isolated
 from immature cotyledons (100-200mg) of greenhouse grown
 plants. The cDNA library was prepared using the Life
 Technologies pSuperScript cDNA library construction kit.
 Complementary DNA was synthesized from mRNA using a poly
 (dT) sequence with a Not I restriction site. Sal I
 linkers adapters were ligated to the blunt-ended cDNA
 fragments followed by NotI digestion. The cDNA fragments
 were directionally cloned into the NotI-Sal I restriction
 site of the pSPORT¹ vector. The ligated cDNA fragments
 were transformed into E. coli ElectroporMax DH10B host cells.
 This library was constructed by Dr. Lila Vodkin and Dr.
 Anu Khanna."
BASE COUNT
 ORIGIN
 2 a 5 c 4 g 14 t

RESULT 2
A1748295
LOCUS A1748295 25 bp mRNA linear EST 30-NOV-2001
DEFINITION sb50f02.y1 Gm-c1011 Glycine max cDNA clone GENOME SYSTEMS CLONE ID:
 Gm-c1011-340 5' similar to SWGLC1_SOYBN P04776 GLYCININ G1
PRECURSOR [CONTAINS: GLYCININ ALA SUBUNIT; GLYCININ BX SUBUNIT]. ;,
mRNA sequence.
ACCESSION A1748295
VERSION A1748295.1 G1:5126559
KEYWORDS EST.
SOURCE Glycine max (soybean)
ORGANISM Glycine max
REFERENCE
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicots; rosids
 , euRosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
 Glycine.
 1 (bases 1 to 25)
AUTHORS Shoemaker, R., Keim, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna,
 'A., Bollea, B., Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C.,
 Wyllie, T., Underwood, K., Steptoe, M., Theising, B., Alien, M., Bowers,
 'Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk
 , R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann
 , R., Waterston, R. and Wilson, R.
TITLE Public Soybean EST Project
JOURNAL Unpublished
COMMENT Contact: Shoemaker R/Public Soybean EST Project
COMMENT Contact: Shoemaker R/Public Soybean EST Project
public Soybean EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 Trace considered overall poor quality
 possible reversed clone: similarity on wrong strand this clone is
 available through: ResGen, Invitrogen Corp. 2130 South Memorial
 Parkway Huntsville, AL 35801 For further information call: (800)
)-533-4363 or contact via email: ccu@resgen.com
 Insert length: 2068 Std Error: 0.00
 High quality sequence stop: 1.
FEATURES
source
 Email: ddunn@genetics.utah.edu
 Insert length: 10000 Std Error: 0.00
 High quality sequence stop: 29.
location/Qualifiers
 1. .29
/note "Vector: PWD42nv; Purified genomic DNA"
/mol_type "genomic DNA"
/strain "C57BL/6J"
/db_xref "taxon:10090"
/clone "UUGC2M0017E17"
/sex "Male"
/lab_host "E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib "Mouse 10kb Plasmid UGGC1M library"
/note "Vector: PWD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (<http://www.jax.org/resources/documents/dnars/>). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptored DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (gi:4732114.gbl|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptored mouse DNA was annealed to
 adaptored vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance." (Stratagene) cells
BASE COUNT
 ORIGIN
 9 a 4 c 10 g 6 t
FEATURES
source
 Email: est@watson.wustl.edu
 Insert length: 2068 Std Error: 0.00
 High quality sequence stop: 1.
location/Qualifiers
 1. .25
/note "Vector: pBluescript II SK+; Site_1: EcoRI; Site_2:
 XbaI; This cDNA library was constructed from mRNA isolated
 from immature cotyledons (100-200mg) of greenhouse grown
 plants. The cDNA library was prepared using the Life
 Technologies pSuperScript cDNA library construction kit.
 Complementary DNA was synthesized from mRNA using a poly
 (dT) sequence with a Not I restriction site. Sal I
 linkers adapters were ligated to the blunt-ended cDNA
 fragments followed by NotI digestion. The cDNA fragments
 were directionally cloned into the NotI-Sal I restriction
 site of the pSPORT¹ vector. The ligated cDNA fragments
 were transformed into E. coli ElectroporMax DH10B host cells.
 This library was constructed by Dr. Lila Vodkin and Dr.
 Anu Khanna."
BASE COUNT
 ORIGIN
 2 a 5 c 4 g 14 t

RESULT 3
A2779573/c
LOCUS A2779573 24 bp DNA linear GSS 16-FEB-2001
DEFINITION 2M0016K09F Mouse 10kb plasmid UGGC1M library Mus musculus genomic
 clone UGGC2M0016K09 F, genomic survey sequence.
ACCESSION A2779573
VERSION A2779573.1 G1:12910362
GSS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 24)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 'M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A.,
 and Wright, D., Weiss, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
JOURNAL Unpublished
COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S 2030 E, SLC, UT

Rm. 308, Biomedical Polymers Research Bldg , 20 S 2030 E , SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert length: 10000 Std Error: 0.00
 Plate: 0016 row: K column: 09
 Seq primer: CGTTGTTAAACGAGTGTAGT
 Class: plasmid ends
 High quality sequence stop: 24.

FEATURES SOURCE Location/Qualifiers
 1. .24

/organism="Mus musculus"
/molecule-type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0016K09"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.Jax.org/resources/documents/dnare/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of Plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT ORIGIN

8	a	8	c	8	g	0	t
---	---	---	---	---	---	---	---

Query Match Best Local Similarity 60.0%; Score 12; DB 28; Length 24;
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTCCAGCATCTGCTGCTTC 20
 Db 23 GCTGCTGCTGCTGCTGC 4

RESULT 4 AZ404206

LOCUS AZ404206 27 bp DNA linear GSS 03-OCT-2000
 DEFINITION 1M0172120F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0172120 F, genomic survey sequence.
 ACCESSION AZ404206
 VERSION AZ404206.1
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 27)

REFERENCE Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Iongacre, S., Mahmoud, M., Meenon, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederauer, A., and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished Contact: Robert B. Weiss
 JOURNAL University of Utah Genome Center
 COMMENT University of Utah
 Constructed at the Institute for Genomic Research (TIGR),

Rm. 308, Biomedical Polymers Research Bldg , 20 S 2030 E , SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0172 row: T column: 20
 Seq primer: CGTGTAACAGGACGGCCAGT
 Class: plasmid ends
 High quality sequence stop: 27.

FEATURES SOURCE Location/Qualifiers
 1. .27

/organism="Mus musculus"
/molecule-type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0172120"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.Jax.org/resources/documents/dnare/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT ORIGIN

0	a	9	c	9	g	9	t
---	---	---	---	---	---	---	---

Query Match Best Local Similarity 60.0%; Score 12; DB 28; Length 27;
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTCCAGCATCTGCTGCTTC 20
 Db 3 GCTGCTGCTGCTGCC 22

RESULT 5 TA141E08P/C

DEFINITION TA141E08P T. brucei sheared genomic DNA clone 141e08, forward sequence, genomic survey sequence.

ACCESSION AL466622
 VERSION AL466622.1
 KEYWORDS GSS.
 SOURCE Trypanosoma brucei
 ORGANISM Trypanosoma brucei
 Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma. 1 (bases 1 to 29)

REFERENCE Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkins, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.

TITLE JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nhl@sanger.ac.uk

COMMENT Constructed at the Institute for Genomic Research (TIGR),

Rockville, MD. Genomic DNA isolated from a cloned population of *Trypanosoma brucei* (TREU927/4 GURat 10.1) was mechanically sheared to give a tight size distribution (~4 kb). The v_i method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In: *Genome sequencing: A Practical Approach*, eds M. Vaudin and B. Barrell, oxford University Press, 1999).

Email: ncelsayed@tigr.org

Details of "T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/projects/T_brucei/.

FEATURES

Source

1. .29
 /organism="Trypanosoma brucei"
 /mol_type="genomic DNA"
 /strain="TREU927"

/ab_xref="taxon:5691"
 /clone="141e08"

BASE COUNT
8 a 7 c 9 g 5 t

ORIGIN

Query Match 60.0%; Score 12; DB 29; Length 29;
 Best Local Similarity 75.0%; Pred. No. 3.9e+05;
 Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCTCCAGCAGTCGCTGCCTC 20

Ub 22 GTTTCTGCATCCGGCTGCTGC 3

RESULT

6

BZ358821/C
 LOCUS BZ358821 24 bp DNA linear GSS 14-NOV-2002
 DEFINITION SALK_133355.31.25.x Arabidopsis thaliana TDNA insertion lines

ACCESSION BZ358821
 VERSION BZ358821.1 GI:24451287
 KEYWORDS GSS.

ORGANISM Arabidopsis thaliana (thale cress)
 SOURCE Eukaryota; Viridiplanteae; Streptophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicots; rosids ; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

REFERENCE 1 (bases 1 to 24)
 AUTHORS Alonso,J.M., Heissen,T.J., Harajas,P., Chen,H., Cheuk,R., Gadrinab,C., Jeske,A., Karnes,M., Kim,C.J., Parker,H., prednis,I., Shinn,P., Zimmerman,J. and Ecker,J.R.

TITLE A Sequence-Indexed Library of Insertion Mutations in the Arabidopsis Genome
 COMMENT Contact: Joseph R. Ecker
 JOURNAL Salk Institute Genomic Analysis Laboratory (SIGNAL)
 The Salk Institute for Biological Studies
 10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
 Tel: 858 453 4100 x1752
 Fax: 858 558 6379
 Email: ecker@salk.edu

This is single pass sequence recovered from the left border of TDNA. This sequence lies within an annotated exon of At4g02660. Class: TDNA tagged.
 Location/Qualifiers
 1. .22
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57Bl/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0251P08"
 /sex="Female"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC2M library"
 /note="Vector: pMD4nv, purified genomic DNA from M. musculus C57Bl/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnars/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732149|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to

the site of insertion. Details of the protocols used can be found at http://signal.salk.edu/tdna_protocols.html

BASE COUNT
9 a 5 c 6 g 4 t
 ORIGIN

Query Match 59.0%; Score 11.8; DB 29; Length 24;
 Best Local Similarity 85.7%; Pred. No. 3.9e+05;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 AGCATCTGCTGCTTC 20
 Db 24 AGCTTGTGCTGCTTC 10

RESULT

7

AZ976330/C
 LOCUS AZ976330
 DEFINITION 2M0251P08 Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0251P08 R, genomic survey sequence.

ACCESSION AZ976330
 VERSION AZ976330.1 GI:13847557
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 22)
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hami,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,F., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished
 Contact: Robert B. Weiss
 University of Utah
 University of Utah
 Rm 308, Biomedical Polymers Research Bldg , 20 S. 2030 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 100000 std Error: 0 00
 Plate: 0251 row: P column: 08
 Seq primer: CACACAGGAAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 22.
 Location/Qualifiers
 1. .22
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57Bl/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0251P08"
 /sex="Female"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC2M library"
 /note="Vector: pMD4nv, purified genomic DNA from M. musculus C57Bl/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnars/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732149|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to

BASE COUNT	kb.	a	c	g	t
QY	1	GCTCCAGCATCTGCCTG	16	Score 11.2; DB 9; Length 28;	
DEFINITION		Pred. No. 7e+05;	Mismatches 3;	Indels 0;	Gaps 0;
LOCUS	AZ864977	22 bp DNA linear	CSS 21-FEB-2001		
ACCESSION	2M0174D21R	Mouse 10kb plasmid UGGC1M library	Mus musculus genomic		
VERSION	AZ864977	clone UGGC2M0174D21 R,	genomic survey sequence.		
KEYWORDS	AZ864977.1 GI:13064817				
SOURCE	CSS.				
ORGANISM	MUS musculus (house mouse)				
REFERENCE	Aukema, H., Dunn, D., Islam, H., Longacre, S., Mahmood, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.				
AUTHORS	(bases 1 to 22)				
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts				
JOURNAL	Unpublished				
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0174 row: D column: 21 Seq primer: CACACAGGAAACAGCTATGACC Class: plasmid ends				
FEATURES	High quality sequence stop: 22. Location/Qualifiers				
source	1. .22 /organism="Mus musculus" /mol_type="genomic DNA" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UGGC2M0174D21" /sex="Male" /lab_host="E. coli strain XL10-Gold, T1-resistant, F-" /clone_lib="Mouse 10kb Plasmid UGGC1M library" /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi 4732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into				

BASE COUNT 3 a 7 c 5 g 7 t
ORIGIN chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

Query Match 55.0%; Score 11; DB 9; Length 28;
 Best Local Similarity 73.7%; Pred. No. 8.4e+05;
 Matches 14; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCAGCATCTGCTCTC 20
 Db 10 CTACAGCACCCGGTGC 28

RESULT 14
 DME546620

LOCUS DME546620 28 bp DNA linear GSS 24-FEB-2003
 DEFINITION Drosophila melanogaster flanking sequence of RS P element insertion
 PRSS5-SZ-3275, clone library P(RS5), genomic survey sequence.
 ACCESSION AJ546620
 VERSION AJ546620.1 GI:28554721

KEYWORDS GSS; genome survey sequence.
 SOURCE Drosophila melanogaster (fruit fly)
 ORGANISM Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 Ephydrioidea; Drosophilidae; Drosophila.

REFERENCE 1
 AUTHORS Ryder, E.J., Ashburner, M., Bagunja, J., Blows, F., Bucheton, A.,
 Coulson, D., Dickson, B., Drummond, J., Glover, D., Gunton, N.,
 Haffen, E., Hall, S., Heisenberg, M., Lepesant, J.A., Maroy, P.,
 Mechler, B., O'Kane, C., Pflugfelder, G., Rasmussen-Lestander, A.,
 Reuter, G., Root, J., Szidonya, J., Wang, S., Webster, J. and
 Russell, S.

TITLE Mapping of RS P element insertions in Drosophila melanogaster for
 the drosdel second generation deficiency kit

JOURNAL Unpublished
 REFERENCE 2
 AUTHORS Ryder, E.J.

TITLE Direct Submission
 JOURNAL Submitted (17-FEB-2003) Ryder E.J., Department of Genetics,
 University of Cambridge, Downing Street, CB2 3EH, UNITED KINGDOM

COMMENT The insertion point of the P element is before base 1 of the
 sequence. Further information about this P element insertion line
 can be found at <http://www.flyseq.org.uk> and
<http://www.drosdel.org.uk>.

FEATURES Location/Qualifiers

SOURCE 1. .28

/organism="Drosophila melanogaster"
 /mol_type="genomic DNA"
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 /note="read=5' end"

misc_feature 1. .28
 /note="P element insertion in the 3' to 5' orientation"

BASE COUNT 1 a 12 c 5 q 10 t
 ORIGIN

Query Match 55.0%; Score 11; DB 29; Length 28;
 Best Local Similarity 73.7%; Pred. No. 8.4e+05;
 Matches 14; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 CTCCAGCATCTGCTCTC 20
 Db 1 CTCAGCACCCGGTGC 19

RESULT 15
 AZ396226

LOCUS AZ396226 30 bp DNA linear GSS 03-OCT-2000
 DEFINITION 1M0160N09R Mouse 10kb plasmid UGCC1M library Mus musculus genomic
 clone UGCC1M0160N09 R, genomic survey sequence.
 ACCESSION AZ396226
 VERSION AZ396226.1 GI:10511298
 GSS.
 SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Sciuromorphi; Mammalia; Eutheria; Rodentia; Muridae; Murinae; Mus.
 1 (bases 1 to 30)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished

COMMENT Contact: Robert B. Weiss
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 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert length: 10000 Std Mirror: U.UU
 Plate: 0160 row: N column: 09
 Seq primer: CACACAGGAACAGCTATGACC
 Class: Plasmid ends
 High quality sequence stop: 30.
 location/Qualifiers
 1. .30
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0160N09"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb Plasmid UUGC1M library"
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid K1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 6 a 7 c 5 g 12 t
 ORIGIN

Query Match 55.0%; Score 11; DB 28; Length 30;
 Best Local Similarity 100.0%; Pred. No. 8.6e+05;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 AGCATCTGCTG 16
 Db 1 AGCATCTGCTG 11

Search completed: August 19, 2003, 21:20:41
 Job time : 1993 secs